

Knockdown factors for defective lattice materials

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Static strength of lattice materials (increasingly adopted for their lightweight) are deeply affected by geometric errors/vacancies

- FE models with homogenized cells + submodels;
- dependence of static strength on number of vacancies investigated by FE simulations of static strength (based on Gurson's model) for ideal and real geometry;
- definition of prospective dependence of yield strength;
- definition of knockdown factors for static resistance.

